WHAT IS CLAIMED IS:

1. A measuring method comprising the steps of:

photographing a flying sphere having printed thereon a recognition mark including a central mark having a directivity and three or more rotating angle calculating marks provided to surround the central mark twice at a predetermined time interval; and

calculating an amount of a rotation of the sphere through an image processing based on recognition marks of two static images obtained by the photographing.

2. The measuring method according to claim 1, wherein respective center positions of the rotating angle calculating marks are present in a region provided apart from a center position of the central mark by 13 mm to 17 mm.

3. The measuring method according to claim 1, wherein the central mark is constituted by a rectangle and a circle provided apart from the rectangle adjacently to one of short sides of the rectangle.

4. A measuring method comprising the steps of:

photographing a flying sphere having printed thereon a recognition mark including a central mark having a directivity and three or more rotating angle calculating marks provided to surround the central mark twice at a predetermined time interval;

recognizing a central mark in each of two static images obtained by the photographing;

distinguishing and recognizing the rotating angle calculating marks in the respective static images based on information about directions which are obtained from the central mark;

selecting the rotating angle calculating mark to be used for calculating a rotating angle based on correspondence of the rotating angle calculating mark of one of the static images with the rotating angle calculating mark of the other static image; and

calculating a rotating angle of the sphere from the selected rotating angle calculating mark.

5. A measuring device comprising:

a camera for photographing a flying sphere having printed thereon a recognition mark including a central mark having a directivity and three or more rotating angle calculating marks provided to surround the central mark twice at a predetermined time interval;

storage means for recording data on two static images obtained by the photographing; and

operation means for comparing the data on the two static images and calculating a rotating angle of the sphere based on the recognition mark.